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<!--StartFragment-->RESULT 1
AGU69156
LOCUS      AGU69156                      681 bp    mRNA    linear    PLN 05-JAN-1999
DEFINITION Alnus glutinosa actinorhizal nodulin AgNOD-GHRP (AgNt84) mRNA,
            complete cds.
ACCESSION  U69156
VERSION    U69156.1  GI:4097819
KEYWORDS   .
SOURCE     Alnus glutinosa
  ORGANISM Alnus glutinosa
            Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
            Spermatophyta; Magnoliophyta; eudicotyledons; core eudicotyledons;
            rosids; eurosids I; Fagales; Betulaceae; Alnus.
REFERENCE  1  (bases 1 to 681)
  AUTHORS  Twigg,P.G.
  TITLE    Isolation of a nodule-specific cDNA encoding a putative
            glycine-rich protein from Alnus glutinosa
  JOURNAL  Thesis (1993) The University of Tennessee, Knoxville, TN, USA
REFERENCE  2  (bases 1 to 681)
  AUTHORS  Dobritsa,S.V. and Mullin,B.C.
  TITLE    In vitro expression of actinorhizal nodulin AgNOD-GHRP and
            demonstration of its toxicity ot Escherichia coli
  JOURNAL  (in) Stacey,G., Mullin,B.C. and Gresshoff,P.M. (Eds.);
            THE BIOLOGY OF PLANT-MICROBE INTERACTIONS: PRECEEDINGS OF THE 8TH
            INTERNATIONAL SYMPOSIUM ON MOLECULAR PLANT-MICROBE INTERACTIONS;
            (1996) In press
REFERENCE  3  (bases 1 to 681)
  AUTHORS  Pawlowski,K., Twigg,P.G., Dobritsa,S.V., Guan,C. and Mullin,B.C.
  TITLE    A nodule-specific gene family from Alnus glutinosa encodes glycine
            and histidine-rich proteins expressed in the early stages of
            actinorhizal nodule development
  JOURNAL  Unpublished (1996)
REFERENCE  4  (bases 1 to 681)
  AUTHORS  Twigg,P.G. and Mullin,B.C.
  TITLE    Direct Submission
  JOURNAL  Submitted (03-SEP-1996) Botany, University of Tennessee, 437 Hesler
            Biology Building, Knoxville, TN 37996, USA
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ORIGIN

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Alignment Scores:

Pred. No.:	1.61e-50	Length:	681
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Query Match: 100.0% Indels: 0
DB: 4 Gaps: 0

US-10-566-598-1 (1-99) x AGU69156 (1-681)

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Qy      21 SerSerAspValSerAlaSerGluLeuAlaValAlaAlaGlnThrLysGluAsnMetGln 40
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Qy      61 GlyHisValHisGlyAsnGlyAsnGluHisGlyHisGlyHisHisHisGlyArgGlyHis 80
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RESULT 2

Y08436

LOCUS Y08436 687 bp mRNA linear PLN 22-SEP-1997

DEFINITION A.glutinosa mRNA for Agl164 protein.

ACCESSION Y08436

VERSION Y08436.1 GI:2437816

KEYWORDS agl164 gene; glycine-rich protein; histidine-rich protein;
nodule-specific protein.

SOURCE Alnus glutinosa

ORGANISM Alnus glutinosa

Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicotyledons;
rosids; eurosids I; Fagales; Betulaceae; Alnus.

REFERENCE 1 (bases 1 to 687)

AUTHORS Pawlowski,K., Twigg,P., Dobritsa,S., Guan,C. and Mullin,B.C.

TITLE A nodule-specific gene family from Alnus glutinosa encodes glycine-
and histidine-rich proteins expressed in the early stages of
actinorhizal nodule development

JOURNAL Mol. Plant Microbe Interact. 10 (5), 656-664 (1997)

PUBMED 9204569

REFERENCE 2 (bases 1 to 687)

AUTHORS Pawlowski,K.

TITLE Direct Submission

JOURNAL Submitted (27-SEP-1996) K. Pawlowski, Dept. Molecular Biology,
Agricultural University Wageningen, Dreijenlaan 3, 6703 HA
Wageningen, NETHERLANDS

FEATURES Location/Qualifiers

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CDS         45. .305

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ORIGIN

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Query Match:	65.3%	Indels:	9
DB:	4	Gaps:	1

US-10-566-598-1 (1-99) x Y08436 (1-687)

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Qy      61  GlyHisValHisGlyAsnGlyAsnGluHisGlyHisGlyHisHisHisGlyArgGlyHis  80
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Db      225  GGGAATGGACATGGA-----CACCACGGCCATGGTCAC  257

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